

BREAKOUT SESSION - GROUP 3 SUMMARY

Moderator: Paul Friley - Brookhaven National Laboratory

Rapporteur: Heather McGeory - Columbia University

- Dr. Robert Goldstein Electric Power Research Institute (EPRI)
- Mr. Alex Nyilas Long Island Power Authority
- Ms. Marion Yuen MYA Group
- Mr. Mark McLean Dynegy Northeast Generation
- Ms. Gail Karlsson Citizens Network for Sustainable Development
- Mr. William Sasken Lawler, Matusky & Skelly Engineers, LLP
- Dr. Rae Zimmerman New York University -Wagner/ICIS
- Ms. Karen Chytalo New York State Department of Environmental Conservation (NYSDEC)
- Dr. Creighton Wirick Brookhaven National Laboratory

The participants addressed the question of what are the most critical energy and water issues facing New York stakeholders

Issues

- Environmental concerns are impeding energy infrastructure changes
 - Permitting process for new power generation is lengthy
 - New facilities are hard to site in dense urban areas
 - Zero impact on the environment is impossible
 - Political pressures can keep decisions from being made
- Construction of large infrastructure projects is difficult
 - Requires large investment
 - No investment capital in industry - the new projects are funded by private investors
 - Need integrated long-term regional planning to forecast power generation needs
 - Liability is carried by power companies in a deregulated environment
- Few economic incentives for moving toward sustainability
 - Social justice issues arise in New York City for siting power plants
 - Renewables have availability and reliability issues; power must be available when needed

Ideas

- Education of the public on the energy-environmental-economic tradeoffs involved in planning for energy and water sustainability is required
- A regional long-term energy-water plan is needed, developed by stakeholders working together

- Some attention should be paid to building "green" buildings and "green" technology in neighborhoods
 - Evaluate hydrogen as a way to reduce carbon emissions
 - Use coal more efficiently with less pollution
 - Look at hydrogeneration from the New York City aquaducts
 - Examine role of water explicitly in all energy planning
- Re-examine environmental regulations that make it difficult to develop and upgrade energy and water facilities
- Consider defining and adopting financial incentives to conserve energy and water and remove disincentives
- Remove complete burden of liability from utilities
- Site power plants and wastewater treatment facilities together to use gray water from wastewater treatment plant for cooling